STRONG
DIGITAL TV

Digital Satellite Receiver
PrimaSat II

User manual

4000 Channels
Digital Audio
Update Satellite
TV Info
8 Favourite lists
Tele Text
Man./Auto Search
10 Timers
Subtitles
0.50 Watt Stand-by

DISEqC 1.2
DVB

www.strong.tv

Fig. 1

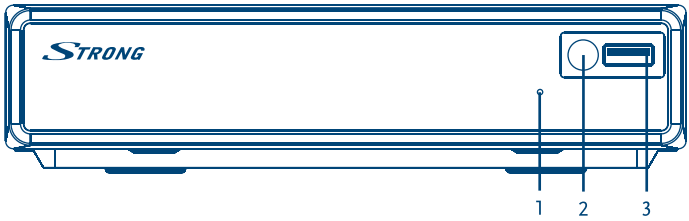

Fig. 2

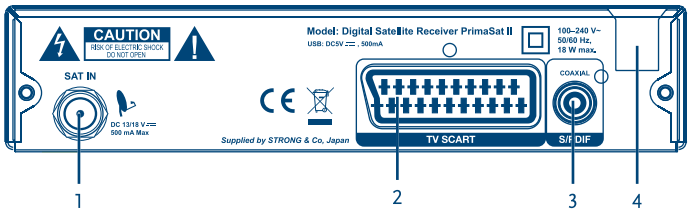

Fig. 3

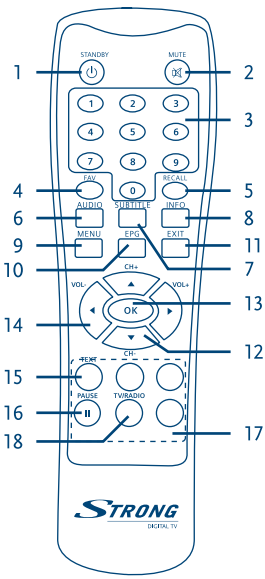

Fig. 4

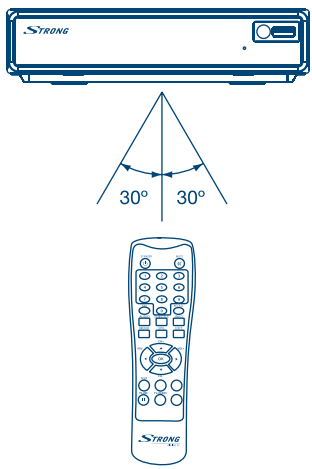

Fig. 5

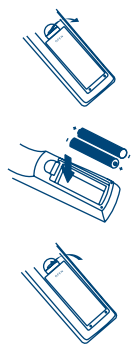

Fig. 6

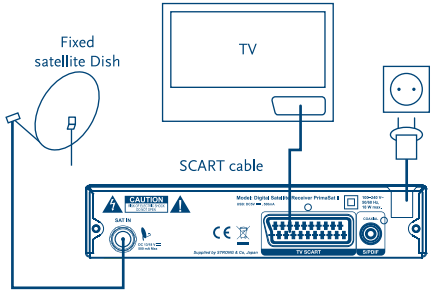

Fig. 7

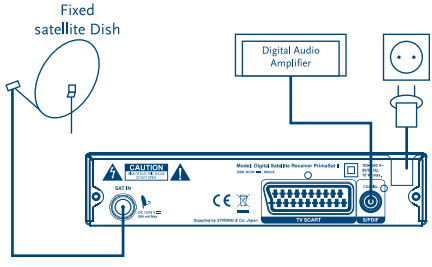

Fig. 8

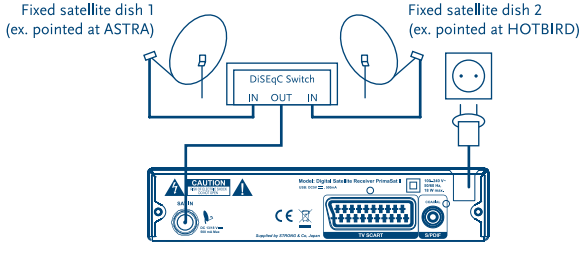

Fig. 9

STRONG DIGITAL TV

English

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16 Jan 2012 16:12

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1.0 INTRODUCTION

1.1 Safety Instructions

DO NOT INSTALL YOUR RECEIVER:
In a closed or poorly ventilated cabinet; directly on top of or under any other equipment; on a surface which might obstruct the ventilation slots.

DO NOT EXPOSE THE RECEIVER OR ITS ACCESSORIES:

- To direct sunlight or near any other equipment that generates heat; to rain or intense moisture; to intense vibration and to any shock which may cause permanent damage to your receiver or to any magnetic objects, such as loudspeakers, transformers, etc.
- Do not use a damaged power cord. It may cause a fire or an electrical shock. Do not touch a power cord with wet hands. It may cause an electric shock.
- When the receiver is not used for a long period of time, you should unplug the power cord from the wall socket.
- Do not use alcohol or ammonia based liquids to clean the receiver. If you wish, you may clean your receiver with a soft lint-free cloth slightly made damp with a mild soap solution, only after disconnecting from the mains voltage supply. Make sure no foreign objects fall through the ventilation slots because this could cause fire or an electric shock.
- Do not place any objects on top of the receiver because this might prevent proper cooling of the components inside.

Safety Precautions

- Never open the receiver cover. It is dangerous to touch the inside of the receiver due to high voltage currents and possible electrical hazards and your warranty will be void. Refer all maintenance or servicing to suitably qualified personnel.
- When you are connecting cables, be sure that the receiver is disconnected from the mains supply voltage. Wait a few seconds after switching off the receiver before you move the receiver or disconnect any equipment.
- It is a necessity that you only use an approved extension and compatible wiring that is suitable for the electrical power consumption of the installed equipment. Please ensure that the electrical power supply corresponds with the voltage on the electrical identification plate at the back of the receiver.
- If the receiver does not operate normally even after strictly following the instructions in this user manual, it is recommended to consult your dealer.

1.2 Storage

Your receiver and its accessories are stored and delivered in a packaging designed to protect against electric shocks and moisture. When unpacking it, make sure that all the parts are included and keep the packaging away from children. For transporting the receiver from one place to another or if you are returning it under warranty conditions, make sure to repack the receiver in its original packaging with its accessories. Failing to comply with such packaging procedures could void your warranty.

1.3 Equipment Set-up

We recommend you consult a professional installer to set up your equipment. Otherwise, please follow the instructions below:

- Refer to the user manual of your TV and your antenna.
- Make sure that the SCART cable and outdoor components are in a good condition and the SCART connection is well shielded

This manual provides complete instructions for installing and using this receiver. The following symbols will serve as follow.

WARNING: Indicates warning information.

Tips: Indicates any other additional important or helpful information.

MENU Represents a button on the remote control or the receiver **(Bold Character)**
Move to Represents a menu item within a window. (*Italic Character*)

1.4 Accessories

1. User's Manual 1x
2. Remote control unit 1x
3. Batteries (AAA type) 2 x

The batteries should not be recharged, disassembled, electrically short-circuited, be mixed or used with other types of batteries.
If rechargeable accumulators instead of batteries are going to be used, we recommend using (e.g. NiMH) types with low self-discharge to ensure long time operation of remote control.

1.5 Usage of external USB devices

- It is recommended to use USB 2.0 storage devices.
- STRONG cannot guarantee compatibility to all types of USB storage devices.
- It is advised not to store important information on USB storage devices used with the receiver. Always make backups of data on USB storage device before usage with receiver. STRONG will not take responsibility for any loss of information or circumstances caused by loss of information.

2.0 YOUR RECEIVER

2.1 Front Panel

Fig. 1

1. **INDICATION LED:** Green LED during operation, red LED in standby mode.
2. **REMOTE SENSOR:** Reception of remote control signals.
3. **USB CONNECTION:** Connection to USB storage device.

2.2 Rear Panel

Fig. 2

1. **SAT IN** To connect to the LNB for satellite signal from dish

2.	**TV SCART**	To connect to your TV set using a SCART cable.
3.	**S/PDIF COAX**	To connect to the input of your digital audio amplifier.
4.	**Power Cord**	Your receiver requires a mains voltage of 100~240 V AC (Auto-selectable), 50/60 Hz ±5%. Make sure to check the power specification before connecting your receiver to the wall outlet.

2.3 Remote Control Unit

Fig. 3

1.	⏻	Turns the receiver On/Stand-by
2.	⊘	Mutes audio output of the receiver
3.	**0~9**	Changes channel and controls numeric functions
4.	**FAV**	Opens the available favourite list if previously configured
5.	**RECALL**	Toggles between the two the last watched channels
6.	**AUDIO**	Opens the audio language(s) and mode selection.
7.	**SUBTITLE**	Opens the subtitle language(s) selection
8.	**INFO**	Shows the information banner
9.	**MENU**	Displays the main menu and returns to the previous level of menu
10.	**EPG**	Opens the EPG (Electronic Program Guide) in TV mode.
11.	**EXIT**	Exits from any menu and sub-menu or cancels the progressing function
12.	▲▼	Switches to the previous/next program in TV mode. Moves the cursor upwards/downwards in menu mode
13.	**OK**	In TV mode it displays the channel list according to the chosen mode. In menu mode activates the highlighted menu item.
14.	◀▶	Increases/decreases the volume level in TV mode. Changes settings for specific menu items in menu mode
15.	**TEXT**	Opens the Teletext language(s) selection
16.	⏸	Freezes your live audio and video, press again to cancel
17.	**COLOURED BUTTONS**	For Teletext and further menu functions
18.	**TV/RADIO**	In viewing mode toggles between TV and radio mode

2.4 Default PIN code: 0000

2.5 Installing the Batteries

Fig. 5

Remove the battery cover from the remote control and put 2xAAA size batteries inside the compartment. The diagram inside the battery compartment shows the correct way to install the batteries.

1. Open the cover
2. Install batteries
3. Close the cover

2.6 Using the Remote Control

Fig. 4

To use the remote control, point it towards the front of the digital receiver. The remote control has a range of up to 7 metres from the receiver at an angle of up to 60 degrees.
The remote control will not operate if its path is blocked.

NOTE: Sunlight or very bright light will decrease the sensitivity of the remote control.

3.0 CONNECTIONS

3.1 Basic connection with SCART cable

Fig. 6

3.2 Connecting to Satellite Dish

Connecting a fixed satellite dish to your receiver ***Fig. 7***
Connecting multiple fixed dishes to your receiver using a DiSEqC 1.0 switch ***Fig. 8***

3.3 Connecting to a Digital Audio Amplifier

Connect your Digital Audio Amplifier with the S/PDIF connector on the back of the receiver. ***Fig. 7***

3.4 Connecting to USB device

Fig. 9

4.0 FIRST TIME INSTALLATION

Ensure your satellite signal is of good quality. It is recommended that you perform the first time installation by following the Installation as described step by step. It will help you to easily achieve system configuration and installation setup.

4.1 OSD Settings

Press **OK** ▲▼ and ◀▶ to change settings for *OSD Language*, *Audio Language*, *Subtitle Language*, *AUTO Standby*, *Auto Time Zone* and *Time Zone*.

4.1.1 OSD Language

Use this option to change the language of the OSD. Use ◀▶ to select *OSD language*.

4.1.2 Audio Language

Use this option to change the language of the Audio. Use ◀▶ to select *Audio language*.

4.1.3 Subtitle Language

Use this option to change the language of Subtitles. Use ◀▶ to select *Subtitle language*.

4.1.4 Auto Standby

This option allows you to enable *Auto Standby* or to disable *Auto Standby*. *Auto Standby* will switch the receiver to standby automatically when it doesn't receive commands from the remote control for a period of 3 hours. To avoid the automatic switch off, use ◀▶ to set *Auto Standby* to *OFF*.

4.1.5 Auto Time Zone

This option allows you to enable *Auto Time Zone* or to disable *Auto Time Zone*.
If switched ON, it will follow the time zone automatically where you are.
Use ◀▶ to set *Auto Time Zone* to *OFF*/*ON*.

4.1.6 Time Zone

Use this option to set the time zone manual. (Only possible if Auto Time Zone is OFF.)
You can make a selection from -12:00 till +12:00. (Steps of 30 minutes).

4.2 My Dish

Press **OK** ▲▼ and ◀▶ to change settings for *Switch Type*, *Toneburst* and DiSEqC.

4.2.1 Switch Type

Use ◀▶ to select the the Switch Type of your dish.
You can select *DiSEqC 1.0/1.1*, *DiSEqC 1.2/USALS* or *NONE*.

4.2.1.1 DiSEqC 1.0/1.1

For *DiSEqC 1.0/1.1*, you can select the satellite you want to use for LNB 1, 2, 3 and 4. Press ▲▼ for the LNB you want to use and press **OK** to edit. (Press the red button to add a satellite from the list.)
Default: LNB1 is set to Astra 19,2E.
You can press **OK** on, for example, LNB1 Astra 19,2E to see the signal level for *Strength* and *Quality*.
Now you can turn your dish to get the highest *Strength* and *Quality* level.
If you have aligned your dish to maximum signal, press **EXIT**.
Use the colour buttons mentioned on the bottom screen.
RED = *Scan All*, **GREEN** = *Delete*, **YELLOW** = *Delete All*, **BLUE** = *Scan*.
After a scan, the list starts with a pre-installed list, followed with new found channels.

NOTE: If your pre-installed list, Astra 19,2E, is NOT giving any signal, you are probably on the wrong satellite. (Press **INFO** button **3** x in viewing mode and try to get a high as possible signal for *Strength* and *Quality*.)

4.2.1.2 DiSEqC 1.2/USALS

DiSEqC 1.2/USALS need to be selected if your dish is mounted on DiSEqC 1.2 motor.

a) First you need to set the *LNB type* you are using (**YELLOW** button).
b) Then you have to select your *Location* (**GREEN** button).
c) To set your *Limit positions*, the **RED** button will bring you in a new *Set Limit* menu. Move continue or in steps to your end position *East* end *West*.

Select the **RED** button to *Set West Limit* position you have reached.
Select the **GREEN** button to *Set East Limit* position you have reached.

d) Satellite positions

Press ▲▼ to select the *Position* you like to use and press **OK**.
Press the **RED** button to *Add* **SAT** you like to install.
Select a transponder receivable at your location (choose *Transponder* field and select the transponder with ◀▶.) Then choose *GOTO X" and press* **OK**. *The dish will turn fast, close to the right position. Use the Move Step* field for Fine Tuning and adjust the position of the dish with the ◀▶ buttons. Once the dish is adjusted to the desired position, select the **OK** field and press **OK** to save.
Press the **BLUE** button to scan the position you have set. (For Astra 19,2E after a scan, the list starts with a pre-installed list, followed *with* new found channels.)
You can save 32 satellite positions.

NOTE: If your pre-installed list, Astra 19,2E is NOT giving any signal, you are probably on the wrong satellite. (Press **INFO** button **3** x in viewing mode and try to get a high as possible signal for *Strength* and *Quality*).

4.2.1.3 NONE / Toneburst

If you have no *DiSEqC 1.0/1.1* or *DiSEqC 1.2/USALS* you can select *NONE*.
Press ▲▼ to select *Toneburst* and use ◀▶ buttons to switch it OFF/ON.
For *Toneburst* OFF, you can edit 1 dish.
For *Toneburst* ON, you can edit 2 dishes.
Press ▲▼ to select *Receiver* and press **OK**.
Here you can edit the dish settings. (Press the **RED** button to *Add* **SAT** you like to install.)
Select a transponder receivable at your location (choose the *Transponder* field and select the transponder with ◀▶).
Now you can turn your dish to get the highest *Strength* and *Quality* level.
If you have aligned your dish to maximum signal, press **OK** to save.
Press the **BLUE** button to scan the position you have set. (For Astra 19,2E after a scan, the list starts with a pre-installed list, followed with new found channels.)

NOTE: If your pre-installed list, Astra 19,2E, is NOT giving any signal, you are probably on the wrong satellite. (Press **INFO** button **3** x in viewing mode and try to get a high as possible signal for *Strength* and *Quality*.)

5.0 MAIN MENU

All important settings and features of your receiver can be operated in *Main Menu*. It consists of the sub-menus: *TV*, *Radio*, *Accessory* and *Configuration*.
To open the *Main Menu* press **MENU**.

5.1 TV

Press ◀▶ to move to *Main Menu*. In *Main Menu* press ◀▶ to move to *TV* and press **OK** to enter the *TV* menu.

5.1.1 TV Channels

Use ◀▶ to reach the following sub-menus *Fav*, *Lock*, *Edit*, *Move*, *Sort*, *Skip*, *Delete* and *Search*.
With the **BLUE** button you can change the available group you would like to use. (*All* Satellite, *Satellite1*, *Satellite2*, *Fav1*, *Fav2* etc.)

5.1.1.1 Favourites

Press ◀▶ to select ♥ if you wish to make favourite lists. Press ▲▼ to select the desired channel and press **1-8** to add the selected channel to that favourite group you like to save. Repeat this operation to remove the channel from the favourite list. (Press **YELLOW** button to save.)

5.1.1.2 Lock

Press ◀▶ to select 🔒. Then press ▲▼ to select the desired channel and press **OK** to lock this channel. (Press **YELLOW** button to save.)

NOTE: This only works if *Channel Lock* is switched *ON* in the *Pin Code* menu from the *Configuration* menu**Default Pin Code is "0000".**

5.1.1.3 Edit

Press ◀▶ to select ✎, then press ▲▼ to select the desired channel and **OK** to edit this channel. (Press **YELLOW** button to save.)

5.1.1.4 Move

Press ◀▶ to select ↑↓, then press ▲▼ to select the desired channel and **OK** to move this channel. Use ▲▼ to move the channel to its new location and press **OK** to confirm. Repeat this for every channel you want to move. (Press **YELLOW** button to save all your changes.)

5.1.1.5 Sort

Press ◀▶ to select ↻. You can sort channels by *Name A~Z*, *Name Z~A* with the **RED** button or *Pay-Free* or *Free- Pay* with the **GREEN** button. Press **MENU** or **EXIT** to return the menu. The list is now sorted by the specified order.

NOTE: Please take care once desired order is executed this order stays.

5.1.1.6 Skip

Press ◀▶ to select ⛨, then press ▲▼ to select the desired channel and **OK** to skip this channel. During zapping in viewing mode, it will pass the skipped channel. (Press **YELLOW** button to save.)

5.1.1.7 Delete

Press ◀▶ to select ⃠, then press ▲▼ to select the desired channel and **OK** to delete this channel. Press the **YELLOW** button to save and confirm or exit the pop up screen. With the **GREEN** button you can select the whole list to delete.

5.1.1.8 Search

Press ◀▶ to select 🔍, then press **OK** and use the On Screen Display menu to search for a programme.

5.1.2 EPG (Electronic Programme Guide)

The EPG shows the programme schedule for all services broadcasting EPG information.

NOTE: Not all broadcasters provide programme information.

Press ▲▼ to select the desired channel and the right screen will show you the available EPG. Press ▶ to step in to the EPG schedule for the current channel and use ▲▼ for *EPG±* and ◀▶ to change *Date*. Use **OK** for more details on the selected EPG. Press **EXIT** to leave.

5.1.3 Programming Timer from EPG

Book the selected programme in EPG screen with the **RED** button.
A *Timer Settings* menu will pop up and you can edit this menu with ▲▼ ◀▶ and the numeric buttons to set the timer details. Press **OK** to save.
The receiver will switch on to the right programme at the right time.

5.2 Radio

Press **MENU** to move to *Main Menu*, then press ◀▶ to move to *Radio* and press **OK** to enter the *Radio Channels* menu.

5.2.1 Radio Channels

Press ▲▼ or **OK** to move to *Radio Channels*. Use ◀▶ to move to the following sub-menus *Fav*, *Lock*, *Edit*, *Move*, *Sort*, *Skip*, *Delete* and *Search*. Press **EXIT** to leave.

NOTE: For each function, refer to chapters 5.1.1.1 to 5.1.1.8 as the functions are identical.

5.2.2 Radio EPG

NOTE: The functions in the *Radio EPG* are identical to the TV EPG, please read the chapter 5.1.2 for your reference.

5.3 Accessory

In *Main Menu* press ◀▶ to move to *Accessory* and press **OK** to enter the menu.
Press ▲▼ to select the following sub-menus *Gomoku*, *Calendar* and *Calculator*.

5.3.1 Gomoku
Press ▲▼ to select *Gomoku* and press **OK**. Play the game Gomoku on your receiver. Use the on screen help tips to set and play the game.

5.3.2 Calendar
Press ▲▼ to select *Calendar* and press **OK**.
Use the on screen help tips to search in your *Calendar*.

5.3.3 Calculator
Press ▲▼ to select *Calculator* and press **OK**.
Use the on screen help tips to use your *Calculator*.

5.4 Configuration
In *Main Menu* press ◀▶ to move to *Configuration* and press **OK** to enter the menu.
Use ▲▼ to move to the following sub-menus *Installation*, *TV Setup*, *PIN Code*, *Set Timer*, *Set Default* and *SW Update*.

5.4.1 Installation
Press ▲▼ to select *Installation* and press **OK**. This menu includes the following submenus: *OSD settings*, *My Dish* and *TP Manager*.

5.4.1.1 OSD settings

NOTE: For each function, refer to chapter 4.1, as the functions are identical.

5.4.1.2 My Dish

NOTE: For each function, refer to chapter 4.2.1, as the functions are identical.

5.4.1.3 TP Manager
Press ▲▼ to select a transponder you would like to *Delete* or to *Scan*. To make a new transponder in your list, you can use *Add*. You can use *Delete All* to delete all channels from the list.
RED = *Add*, **GREEN** = *Del*, **YELLOW** = *Delete All*, **BLUE** = *Scan*. (See bottom line.)

5.4.2 TV Setup
Press ▲▼ to select *TV Setup* and press **OK**.
Use ▲▼ to move to the following sub-menus *TV Format*, *TV System*, *OSD Transparency*, *Banner Display Time* and *Video Output*.

5.4.2.1 TV Format
Press ◀▶ to change settings for *TV Format* (4:3 LB, 4:3 PS, 16:9 PB,16:9 AUTO).

5.4.2.2 TV System
Press ◀▶ to change settings for *TV System* (PAL, NTSC, AUTO).

5.4.2.3 OSD Transparency
Press ◀▶ to change settings for *OSD Transparency* (1~ 8).

5.4.2.4 Banner Display Time
Press ◀▶ to change settings for *Banner Display Time* (*1sec*, *3sec*, *5sec*, *10sec*, *30sec*, *Always*).

5.4.2.5 Video Output
Press ◀▶ to change settings for *Video Output* (RGB or CVBS).
RGB will give you the best performance.

5.4.3 PIN Code
Press ▲▼ to select *PIN Code* and press **OK**.
Use ▲▼ to move to the following sub-menus *Menu Lock*, *Channel Lock*, *Parental Control* and *Change PIN*.

5.4.3.1 Menu Lock
Press ◀▶ to change settings for *Menu Lock* (Yes or No).
This option will ask you for a pin code if you like to enter the menu. **(Default pin code:0000)**

Note With active menu lock some functions in the channel editing are not available.

5.4.3.2 Channel Lock
Press ◀▶ to change settings for *Channel Lock* (Yes or No).
This option will ask you for a pin code if you try to enter a locked Channel. **(Default pin code: 0000)**

5.4.3.3 Parental Control
Press ◀▶ to change settings for *Parental Control*. (*No Restriction*, *All Programmes*, *02 ~ 18*.)
This option will ask you for a pin code if you try to enter a channel with your restrictions. **(Default pin code: 0000)**

5.4.3.4 Change PIN
Press ◀▶ to change settings for *Change PIN* (Yes or No).
If you select *Yes*, this option will ask you to *Enter Old PIN* code first and then you will be asked to *Enter New PIN* for 2 times.

5.4.4 Set Timer
Press ▲▼ to select *Set Timer* and press **OK**.
This option will bring you to a timer screen.
To *Add* a timer, push the **RED** button and use ▲▼ ◀▶ to change settings.
Your receiver will switch to the right channel at the right time, even from standby.
You are able to set 10 timers at most.
If you would like to change a timer setting, use ▲▼ to highlight the timer number and use the **RED** button for *Edit* or the **GREEN** button to *Delete*.

5.4.5 Set Default

Press ▲▼ to select *Set Default* and press **OK**.
A pop-up screen will ask you: "*Set factory default*?". Press **OK** or **EXIT**.
Please be careful when using this function, as it will erase all the data and parameters you may have set earlier. Once you have set to *Default* you will have to re-install your preferences and re-scan channels. The receiver will return to its factory default state and all user data will be deleted.

NOTE: Before you set to *Default*, make a backup on a *USB Device*! (Chapter 5.4.6.3 Backup to USB.)

NOTE: Your PIN code will change back to the factory setting "0000".

5.4.6 SW Update

Press ▲▼ to select *SW Update* and press **OK**.
Use ▲▼ to move to the following sub-menus *Update by OTA*, *Update by USB*, *Backup to USB*.

5.4.6.1 Update by OTA

This function will search for new software on satellite.
An *Update by OTA* menu will pop up and you can edit this menu with ▲▼◀▶ and the numeric buttons to change the details. Press **OK** to scan directly.
For *OTA* you can set *Enabled* and *Disabled*.
Default: It will scan at this default setting for new software.
Change *OTA* to *Disabled* if you don't want to use this function.

Note: Needed parameters can be changed. Please ask your local STRONG dealer in case software update was not successful.

Warning! During the Update process NEVER disconnect the receiver from the main or disconnect the receiver from the antenna cable! This can damage your receiver and warranty will be void! After the update the receiver restarts automatically!

5.4.6.2 Update by USB

a) Download the required update file for your receiver model from our website www.strong.tv.
b) Unzip the file, copy it to your USB device and connect it to the USB port of your receiver.
c) Use ▲▼ to move to *Update by USB* and press **OK**. (USB device should be connected!)

An *Update Files* list will pop-up and you can use ▲▼ ◀▶ to highlight the software you want to load.
Press **OK** and confirm the new request "*System Update*?" and press **OK** for Yes or **EXIT** for exit.

Warning! NEVER disconnect the USB device from the receiver, the receiver from the main or switch the power OFF during the update/backup procedure. It can damage your receiver and warranty will void! As soon as the update has been finished, the receiver restarts automatically!

NOTE: You can also load a *backup file* with your backup settings! (See chapter 5.4.6.3)

5.4.6.3 Backup to USB

Use ▲▼ to move to *Backup to USB* and press **OK**. (USB device should be connected!)
To backup your *User Database* press **OK** and it will save your *User Database*.
You can use this *Backup File* in *Update by USB*. (Read chapter 5.4.6.2)

Warning! NEVER disconnect the USB device from the receiver, the receiver from the main or switch the power OFF during the update/backup procedure. It can damage your receiver and warranty will void! As soon as the update has been finished, the receiver restarts automatically!

6.0 CHANGING CHANNEL LIST MODE

To change between TV and Radio channel lists use **TV/RADIO** in normal viewing mode. To change channel list to Favourite in normal viewing mode, press **FAV**. Use **FAV** again to select other favourite groups or Satlists. Now select the desired channel and press **OK** to switch to full screen mode.

7.0 AUDIO LANGUAGE SELECTION

Press **AUDIO** to select the audio language. Select *Audio Channel* or *Audio mode* with ▲▼. ◀▶ and make your selection (*Stereo*, *Left* or *Right* channel). Press **OK**, *Exit* and confirm. Your selection will be memorized for the current channel.

NOTE: Audio tracks containing AC3 can only be listened to if the receiver is connected to a digital audio amplifier and this amplifier is switched ON and set to the correct input.

8.0 TELETEXT

Press **TEXT** in normal viewing mode and ◀▶ to increase or decrease the displayed page number. Use **1-9** buttons to input a page directly.

9.0 SUBTITLES

Press **SUB** in normal viewing mode. If the current channel broadcasts subtitle information, the *Subtitle Language* selection menu will appear. Use ▲▼ ◀▶ to select what you want, press **OK**, *Exit* and confirm.

10.0 TROUBLE SHOOTING

There may be various reasons for occurring abnormal operation of the receiver. Check the receiver according to the procedures shown below. If the receiver does not work properly after checking it, please contact the dealer. Don‘t open the receiver cover. This may cause a dangerous situation and will void warranty.

Cause	Remedy	Solution
The display on front panel does not light up.	The power cord is not plugged in. Receiver is in stand-by mode. Your model is without display.	Check, that the power cord is plugged into the wall outlet. Switch ON receiver. Your model is without display.
No picture or sound	Wrong connection of the Audio/ Video output of the receiver to TV.	Connect the Audio/video output of the receiver to TV correctly.
	Audio muting. Wrong Audio channel	Press the Mute button. Press AUDIO button and select other audio channel
	TV power off, wrong channel or input.	Turn on TV, select correct channel or input.
No picture	The receiver can’t receive the signal	Check the antenna cable, replace the cable, or connect the cable to the receiver tightly.
	Incorrect values of some tuner parameters.	Set the values of the tuner parameters correctly in the installation menu.
	Wrong direction of the dish	Check the signal strength with a spectrum analyzer and adjust your dish correctly.
The remote control does not work	The batteries of the remote control are not inserted or exhausted	Check whether the batteries are inserted correctly in your remote control. Check the batteries, and if exhausted replace the batteries in the remote control.
The USB storage device is not recognized.	Wrong formatted	Make sure that your USB device use file system FAT32.
The external USB HDD does not start.	Power consumption is too high.	Connect extra power supply adaptor to your USB HDD.
The receiver switches off automatically.	Auto Standby function enabled.	Disable Auto Standby. See section 4.1.4 for details.

11.0 SPECIFICATIONS

Demodulator

Modulation:	QPSK
Input Symbol Rate:	2~45 Ms/s

SCPC & MCPC signals from C & KU band satellites

Video Decoder

Profile level:	MPEG-2 MP@ML
Input Rate:	Max. 60 Mbits/s
Video Resolution:	720 x 576 pixels (PAL), 720 x 480 pixels (NTSC)
Aspect Ratio:	4:3, 16:9

Audio Decoder

ISO/IEC 11172 LAYER I&2

Sampling rate:	32, 44.1, 48 kHz
Audio modes:	Stereo, Dual mono, Mono

Tuner

Front-End:	DVB-S
Input Frequency Range:	950~2150 MHz
RF Input Level:	-25 ~ -65 dBm
LNB Power:	13/18 V DC (± 5%) max. 500 mA, Overload protected
DiSEqC Version:	1.0, 1.1 & 1.2, GOTO X

System and Memory

Flash Memory:	16 Mbits
SDRAM:	64 Mbits

Connectors

SAT IN

SCART TV (RGB, CVBS)

S/PDIF:	coaxial output

USB port

General Data

Input Voltage Range:	100-240 V AC 50/60 Hz
Power consumption:	max 18 W, typ. 4.6 W
Stand-by Power consumption:	0.50 W
Operating Temperature:	+0 ~ 40 °C
Storage Temperature:	-30 ~ 80 °C
Operating Humidity Range:	10 ~ 85%, RH, Non-condensing
Size (WxDxH):	180 x 130 x 45 mm
Weight:	ca. 0.457 kg